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## **CLAIMS**

What is claimed is:

1. A method of providing the location of a second mobile unit to a first mobile unit, said method comprising:

receiving from said first mobile unit a first packet including a current location of said first mobile unit;

receiving from said second mobile unit a second packet including a current location of said second mobile unit;

storing said current locations in a database; and

- transmitting a data package to said first mobile unit in response to a request from said first mobile unit, wherein said data package comprises said current location of said second mobile unit retrieved from said database.
  - 2. The method of claim 1, wherein said receiving and said storing are repeated at a regular time interval.
- 15 3. The method of claim 1, said packet further providing at least one of:

personal information about a first user, said first user being a user of said first mobile unit;

an announcement; and

a request for information concerning the current location of said second mobile unit.

- 4. The method of claim 3, wherein said first packet further provides said personal information and said data package comprises a list of mobile units used by users having similar personal information as said first user.
- 5. The method of claim 1, wherein said first packet further provides anannouncement and a list of recipients, and wherein said data package comprises:

said announcement; and

a location stamp showing the location of said first mobile unit indicated by said first packet.

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6. The method of claim 1, wherein said first packet is superimposed with a request for the current location of said second mobile unit, and wherein said transmitting comprises:

obtaining the current location of said second mobile unit from said database; and creating said data package with said current location of said second mobile unit.

7. The method of claim 3, wherein said first packet comprises a request for a notification when said second mobile unit arrives at a reference point, and wherein said transmitting comprises:

calculating a distance between said second mobile unit and said reference point;

and

including a notification to said data package when said distance is approximately zero.

- 8. The method of claim 3, wherein said personal information comprises at least one of:
- name of said first user;

  telephone number of said first user;

  address of said first user;

  e-mail address of said first user; and
  hobbies of said first user.
- 9. The method of claim 1, wherein said receiving and said transmitting are done through a data network.
  - 10. The method of claim 9, wherein said data network comprises the Internet.
- The method of claim 9, wherein said data network comprises a wireless communication network, said wireless communication network being selected from a
   group consisting of CDPD, CDMA, GSM, iDEN, and AMPS.
  - 12. The method of claim 3, further comprising excluding said first mobile unit from a group of potential recipients of said data package if so requested by said second mobile unit.
  - 13. The method of claim 7 wherein said notification comprises at least one of:

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sound;

flashing light;

text; and

graphics.

5 14. An apparatus for tracking the location of a second mobile unit from a first mobile unit, said apparatus comprising:

a processing station that receives location data from said first and second mobile units; and

a database of said location data connected to said processing station.

- 10 15. The apparatus of method 14, further comprising a map storage connected to said processing station.
  - 16. The apparatus of method 14, further comprising a data network through which packets travel between said processing station and said first and said second mobile units.
- 17. The apparatus of method 16, wherein said packets comprise a current location of
   15 said first and said second mobile units traveling from said first and second mobile units to
   said processing station at regular time interval.
  - 18. The apparatus of method 16, wherein said packets comprise a current location of said second mobile unit traveling from said processing station to said first mobile unit in response to a request from said first mobile unit.
- 20 19. The apparatus of method 16, wherein said data network comprises the Internet.
  - 20. A method of providing the current location of a second mobile unit to a first mobile unit, said method comprising:

said first mobile unit transmitting a first packet to a service provider computer, said first packet indicating the current location of said first mobile unit;

said second mobile unit transmitting a second packet to said service provider computer, said second signal indicating the current location of said second mobile unit;

said service provider computer receiving said first and second signals and storing said current locations of said first and said second mobile units in a database;

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said service provider computer retrieving said current location of said second mobile unit from said database in response to a request from said first mobile unit; and

said service provider computer transmitting said current location of said second mobile unit to said first mobile unit.

- 5 21. The method of claim 20, wherein said transmitting is done through the Internet and a data network, said data network selected from a group consisting of CDPD, CDMA, GSM, iDEN, and AMPS.
  - 22. The method of claim 20, wherein said request comprises a request to be notified when said second mobile unit arrives at a reference point, said method further comprising:

said service provider computer calculating the distance between said current location of said second mobile unit and said reference point, and

said service provider computer sending a notification to said first mobile unit when said distance is approximately zero.

- 15 23. A system of accessing current location of a second mobile unit from a first mobile unit, said system comprising:
- a first mobile unit and second mobile unit connected to a data network; and
  a processing station connected to a database containing the current locations of
  said first and second mobile units, said processing station also connected to said data
  network..
  - 24. The system of claim 23 wherein each of said first and second mobile units comprises:
    - a GPS receiver for receiving GPS code sequences;
    - a processor that converts said GPS code sequences to location data;
- a memory containing conversion data for converting said GPS code sequences to location data; and
  - a wireless modem connecting said first and said second mobile unit to said data network.
  - 25. The system of claim 24 wherein said conversion data comprises:

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preliminary location data; and correction factors.

- 26. The system of claim 23, each of said first and second mobile units further comprising a user interface device connected to each of said first and second mobile units, said user interface device selected from a group consisting of personal digital assistant, laptop, wireless phone, and pager.
- 27. The system of claim 26, said user interface conveying at least one of: sound;

flashing light;

text; and graphics.

- 28. The system of claim 23, wherein said data network comprises the Internet.
- 29. The system of claim 23, wherein said data network comprises a wireless communication network selected from a group consisting of CDPD, CDMA, GSM, AMPS, and iDEN.
- 30. The system of claim 23, wherein said database comprises:
  a storage for personal information of users;
  a map storage; and
  - a storage for the current locations of said first and second mobile units.
- 20 31. The system of claim 24, wherein each of said first and second mobile units comprises a plurality of mobile units.